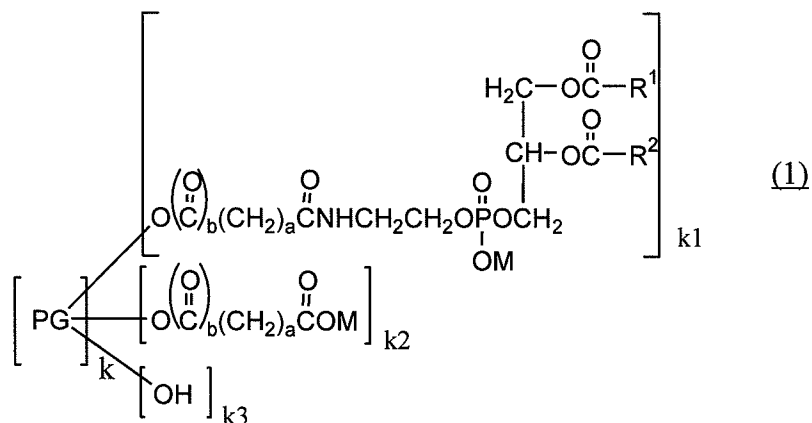


Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A phospholipid derivative represented by the following formula (1):



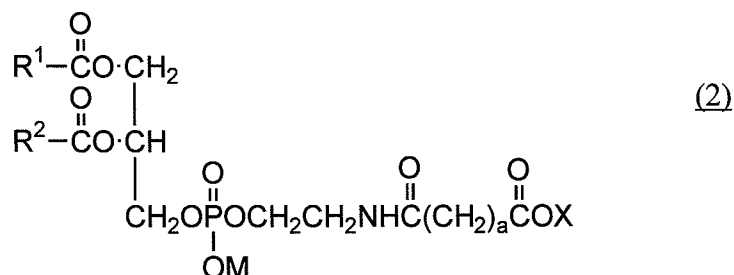
wherein [PG]_k represents a residue of polyglycerin having a polymerization degree of k, wherein k is 2 to 50, R¹CO and R²CO independently represent an acyl group having 8 to 22 carbon atoms, symbol "a" independently represents an integer of 0 to 5, symbol "b" independently represents 0 or 1, M represents hydrogen atom, an alkali metal atom, an ammonium, or an organic ammonium, and k₁, k₂, and k₃ represent numbers satisfying the following conditions: $1 \leq k_1 \leq (k+2)/2$, $0 \leq k_2$, and $k_1 + k_2 + k_3 = k + 2$.

2.

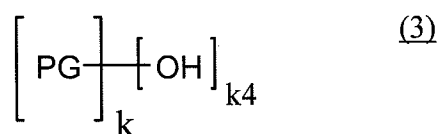
2. (Original) The phospholipid derivative according to claim 1, wherein k₁ satisfies $1 \leq k_1 \leq 2$.

3. (Previously Presented) The phospholipid derivative according to claim 1, wherein k_2 satisfies $0 \leq k_2 \leq 1$.
4. (Previously Presented) The phospholipid derivative according to claim 1, wherein k_1 , k_2 , and k_3 satisfy $8 \leq k_1 + k_2 + k_3 \leq 52$.
5. (Previously Presented) The phospholipid derivative according to claim 1, wherein R^1CO and R^2CO independently represent an acyl group having 12 to 20 carbon atoms.
6. (Previously Presented) The phospholipid derivative according to claim 1, wherein k_2 is 0.
7. (Original) The phospholipid derivative according to claim 6, wherein a and b represent 0.
8. (Previously Presented) The phospholipid derivative according to claim 1, wherein k_2 satisfies $0 < k_2$.
9. (Previously Presented) A lipid membrane structure comprising the phospholipid derivative according to claim 1.
10. (Original) The lipid membrane structure according to claim 9, which is a liposome.
11. (Previously Presented) A surfactant comprising the phospholipid derivative according to claim 1.
12. (Previously Presented) A solubilizer comprising the phospholipid derivative according to claim 1.
13. (Previously Presented) A dispersing agent comprising the phospholipid derivative according to claim 1.

14. (Currently Amended) A method for producing the phospholipid derivative according to claim 1, which comprises ~~the step of~~ reacting a compound represented by the following formula (2):



wherein R^1 , R^2 , a , and M have the same meanings as defined above, and X represents hydrogen atom or N-hydroxysuccinimide, with a polyglycerin represented by the following formula (3):



wherein $[\text{PG}]_k$ represents a residue of polyglycerin having a polymerization degree of k , wherein k has the same meaning as defined above, and k_4 is a number satisfying the following condition: $k_4 = k + 2$.

15. (Currently Amended) A method for producing the phospholipid derivative according to claim 1, which comprises ~~the following steps~~:

(A) ~~the step of~~ reacting a polyglycerin with a dibasic acid or a halogenated carboxylic acid to obtain a carboxylated polyglycerin; and

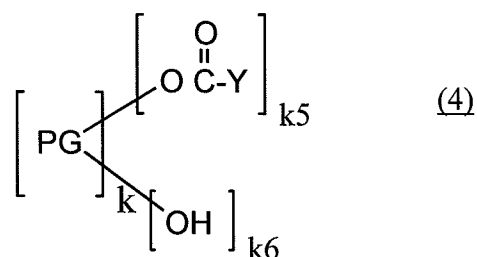
(B) ~~the step of~~ reacting the carboxylated polyglycerin obtained in ~~the step~~ (A) with a phospholipid.

16. (Currently Amended) A method for producing the phospholipid derivative according to claim 1, which comprises ~~the following steps~~:

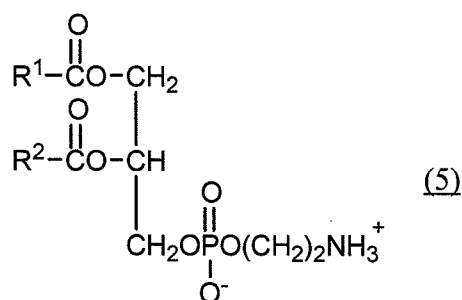
(A) ~~the step of~~ reacting a polyglycerin with a halogenated carboxylic acid ester and hydrolyzing the resulting ester compound to obtain a carboxylated polyglycerin; and

(B) ~~the step of~~ reacting the carboxylated polyglycerin obtained in ~~the step~~ (A) with a phospholipid.

17. (Currently Amended) A method for producing the phospholipid derivative according to claim 1, which comprises ~~the step of~~ reacting a polyglycerin derivative represented by the following formula (4):



wherein [PG]k represents a residue of polyglycerin having a polymerization degree of k, wherein k represent a number of 2 to 50, Y represents hydroxyl group or a leaving group, and k5 and k6 are numbers satisfying the following conditions: $1 \leq k5 \leq (k+2)/2$, and $k5 + k6 = k + 2$, with a phospholipid represented by the following formula (5):



wherein R¹ and R² have the same meanings as defined above, in an organic solvent in the presence of a basic catalyst.

18. (Original) A pharmaceutical composition containing the lipid membrane structure according to claim 9 retaining a medicament.

19. (Original) The pharmaceutical composition according to claim 18, wherein the medicament is an antitumor agent.